

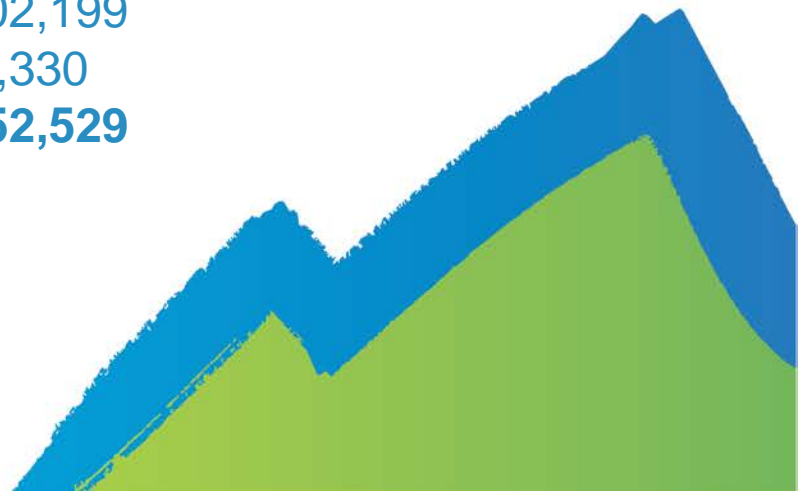
Fry Boulevard Renovation

Traffic Signal discussion



35% Construction Cost Estimate

• Removal and salvage	\$117,963
• Earthwork	\$15,413
• Roadway paving	\$37,665
• Drainage	\$65,000
• Signing, striping, traffic control	\$92,546
• Traffic signal & street lighting	\$1,245,600
• Landscaping	\$1,059,524
• Mobilization	\$40,000
• Concrete, curb, sidewalk	\$248,487
• Miscellaneous	\$80,000
• Construction subtotal	\$3,002,199
• 15% contingency	\$450,330
• Construction total estimate	\$3,452,529
• Budget for Phase 1 - FY21	\$2,497,540
• Adjusted budget - FY22	\$3,127,295




Traffic signal & Street lighting cost detail

Traffic Signal at Garden and Fry	LS	1	\$330,000.00	\$330,000.00
Traffic Signal at North and Fry	LS	1	\$330,000.00	\$330,000.00
RRFB Ped Crossing Signal at Mid-Block	LS	1	\$50,000.00	\$50,000.00
RRFB Ped Crossing Signal at Carmichael	LS	1	\$50,000.00	\$50,000.00
Pedestrian Light, Pole, and Foundation	EACH	25	\$5,800.00	\$145,000.00
Street Light, Pole w/ Banner Arms and Foundation	EACH	26	\$7,100.00	\$184,600.00
200A Electrical Service Entrance Section	EACH	2	\$12,000.00	\$24,000.00
Conduit, Wire, Trenching and Backfill	LF	5,400	\$20.00	\$108,000.00
Concrete Pull Box for Electrical	EACH	60	\$400.00	\$24,000.00

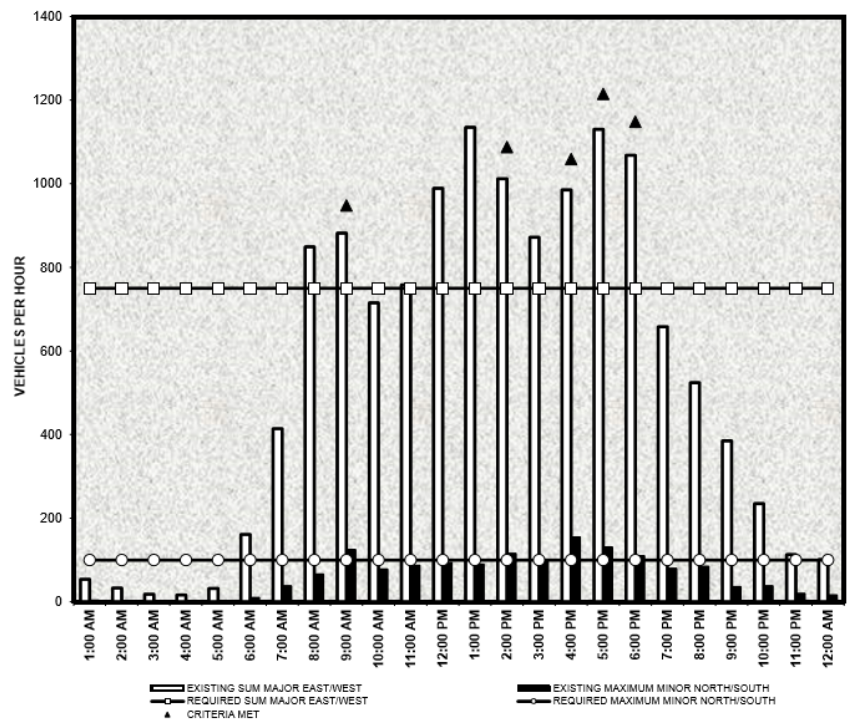
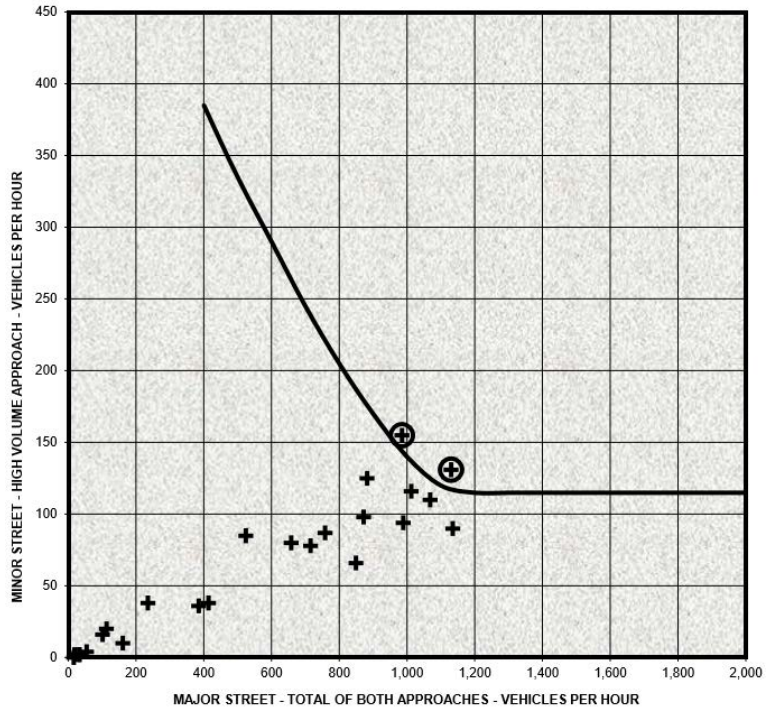


Signal warrants

- The meeting of a warrant or warrants does not in itself require the installation of a traffic signal
 - Traffic signals may or may not improve efficiency and/or safety depending on specific intersection characteristics
 - Of the three signals studied along this corridor, Fry/Carmichael is the closest to meeting warrants
 - The proximity of future growth areas is a potential consideration
 - Simultaneous signal operation can create additional challenges which should be considered
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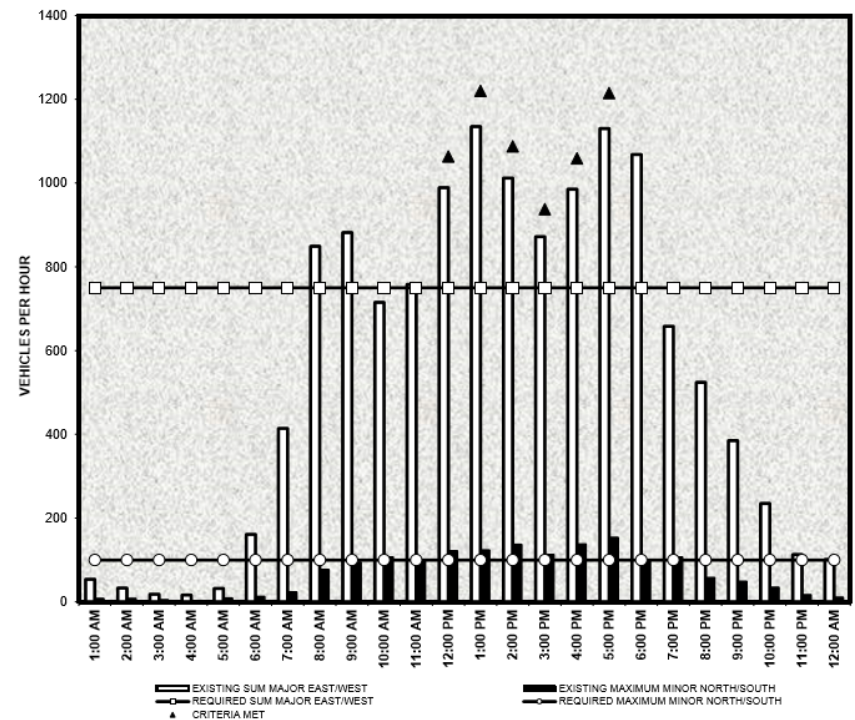
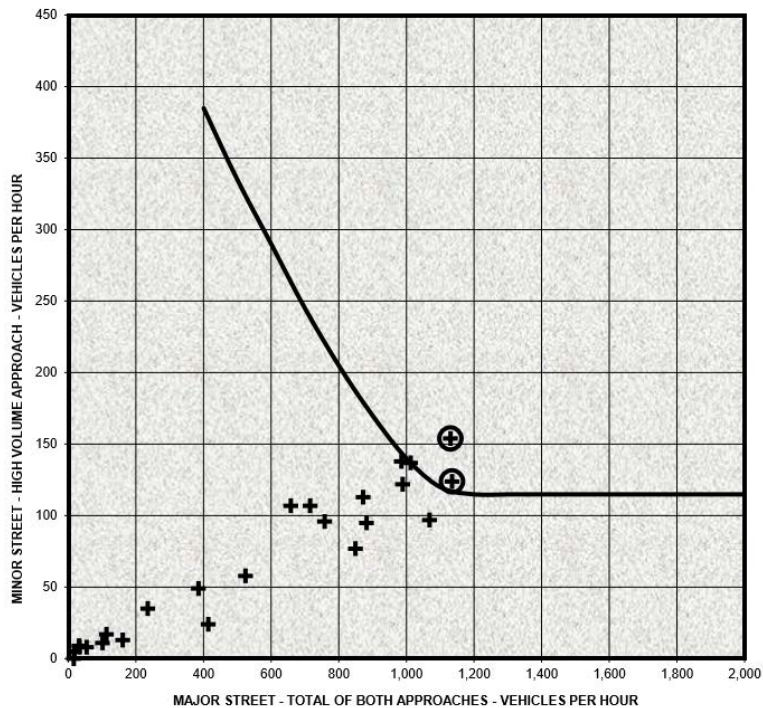
Fry and North signal warrants

- Signal runs simultaneously with Fry/Carmichael due to close proximity
- In the current condition, the intersection receives points on two separate warrants but doesn't meet either
- In order to meet warrants in the future, North would have to see traffic volume increase by about 10% during three midday hours

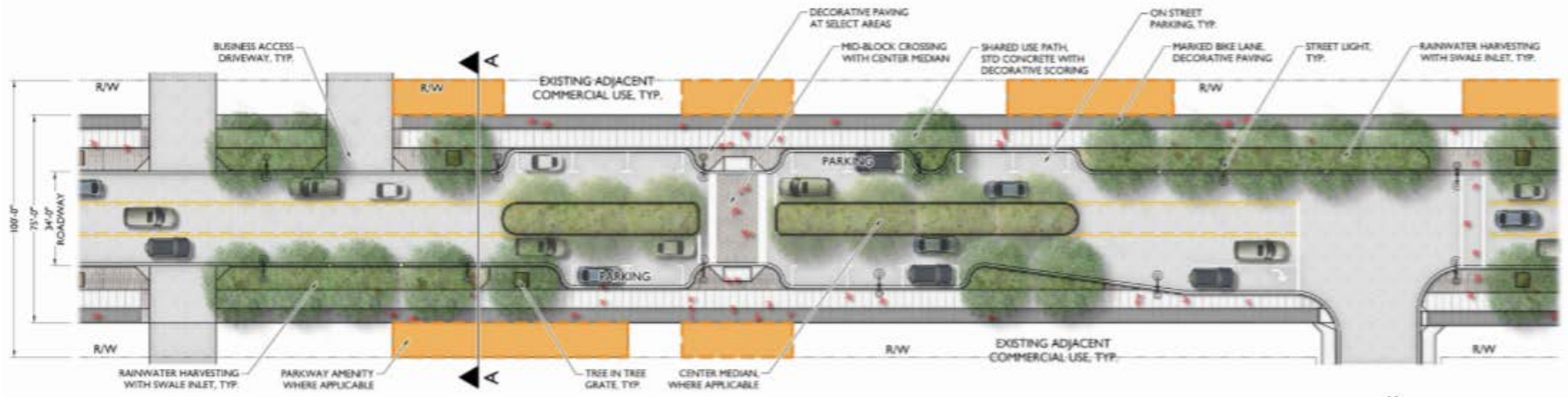


Fry and Carmichael signal warrants

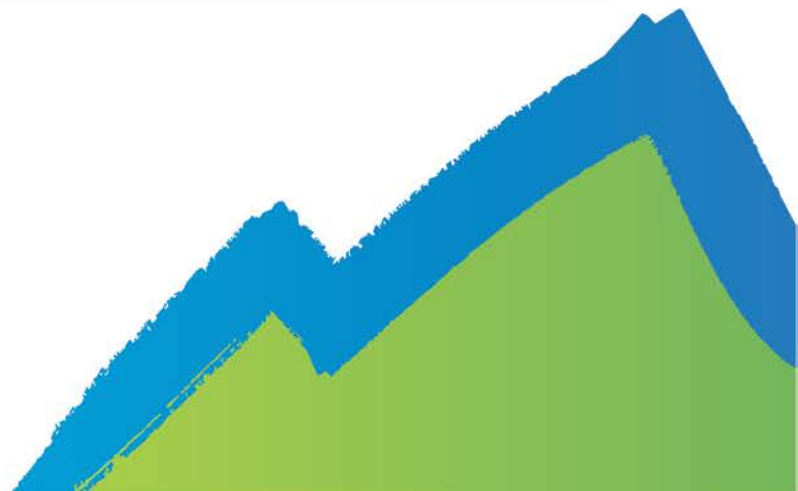
- Signal runs simultaneously with Fry/North due to close proximity
- In the current condition, the intersection receives points on two separate warrants but doesn't meet either
- In order to meet warrants in the future, Carmichael would have to see traffic volume increase by less than 10% during two midday hours



Crosswalk visuals



1 PROTOTYPICAL STREET PLAN (FRY BOULEVARD)
Scale: 1" = 10'-0"



Crosswalk visuals

